

MANUKHIN, A.S., starshiy nauchnyy sotrudnik

Loom with a new system of automatic bobbin feed from the box. Tekst.-
prom. 22 no.1:84-85 Ja '62. (MIRA 15:2)

1. Tsentral'nyy nauchno-issledovatel'skiy institut khlopchatobu-
mashnoy promyshlennosti (TsNIKhBI).
(France--Looms) (Moscow--Exhibitions)

MANUKHIN, A.S., starshiy nauchnyy sotrudnik

Distribution of warp thread breakage along the width of the warp.
Tekst.prom. 22 no.4:47-49 Ap '62. (MIRA 15:6)

1. Tsentral'nyy nauchno-issledovatel'skiy institut khlopchatobu-
mazhnoy promyshlennosti (TSNIKhBI).
(Locms)

MANUKHIN, A.S.

Take-up of split picks in the selvage formation on looms with a
new system of weft laying. Izv. vys. ucheb. zav.; tekhn. tekst.
prom. no.1:73-79 '65. (MIRA 18:5)

1. Tsentral'nyy nauchno-issledovatel'skiy institut khlochatobumazhnoy
promyshlennosti.

MANUKHIN, A.S., starshiy nauchnyy so'rudnik

New type of loom with grips in the shuttle. Tekst. prom. 25
no.3:84-87 Mr '65. (MIRA 18:5)

1. Tsentral'nyy nauchno-issledovatel'skiy institut khlochatobu-
mazhnoy promyshlennosti (TsNIKhBI).

MANUKHIN, A.S., kand. tekhn. nauk, starshiy nauchnyy sotrudnik

Fastening of fabric selvages on the pneumatic P-105 loom.
Tekst. prom. 25 no.7:40-44 J1 '65. (MIRA 18:8)

1. Tsentral'nyy nauchno-issledovatel'skiy institut khlochatobumazhnoy promyshlennosti (TSNIKhBi).

LYUBIMOV, N.S., kand.tekhn.nauk; MANUKHIN, A.S., starshiy nauchnyy sotrudnik,
kand.tekhn.nauk; SHUMARINA, A.V., inzh.; SLADKOPEVTSEVA, G.Ye., inzh.;
NARKUNAS, N.L., inzh.; MISHKETKUL', Ya.S.

Reviews and bibliography. Tekst.prom. 25 no.11:90-94 N '65.

(MIRA 18:12)

1. Rukovoditel' laboratorii. TSentral'nogo nauchno-issledovatel'skogo instituta khlopchatobumazhnoy promyshlennosti, Moskva (for Lyubimov).
2. TSentral'nyy nauchno-issledovatel'skiy institut khlopchatobumazhnoy promyshlennosti, Moskva (for Manukhin).
3. Khimicheskaya laboratoriya Ivanovskogo melanzhevogo kombinata (for Sladkopevtseva, Shumarina, Narkunas).
4. Nachal'nik tkatskogo proizvodstva Novo-Noginskoy tkatskogo-otdelochnoy fabriki (for Mishketkul').

ACCESSION NR: AP4039271

S/0148/64/000/005/0017/0021

AUTHORS: Yelyutin, V.P.; Pavlov, Yu.A.; Manukhin, A.V.

TITLE: The effects of oxide impurities on the semiconductive and chemical properties of vanadium pentoxide

SOURCE: IVUZ. Chernaya metallurgiya, no. 5, 1964, 17-21

TOPIC TAGS: vanadium pentoxide, SiO sub 2, Cr sub 2 O sub 3, Cu sub 2 O, termal change, semiconduction, chemical activity, ZrO sub 2 crucible, ionization

ABSTRACT: There is a recent tendency of investigating the reduction - oxidation of metals from the viewpoint of semiconductive properties. Thus, the authors observed the effects of SiO₂, Cr₂O₃ and Cu₂O on the character of thermal changes in the electrical conductivity and chemical activity of vanadium pentoxide. Specimens were prepared by mixing V₂O₅ for 50 hrs. with a rated amount of additives and melting in ZrO₂ crucibles. The specimens were crushed and passed through a 120 mesh sieve. A load of 1.5 t/cm² was applied to produce 4 x 5 x 40 mm compacts which were sintered in an oxygen

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ACCESSION NR: AP4039271

stream at 600C for 7 hrs. Impurities exerted a considerable influence on the character of changes of the electrical resistivity of specimens according to temperature. They affected the initial temperature at which the conductivity of vanadium pentoxide began predominating over the conductivity of impurities. The higher the concentration of impurities, the greater the effect on the initial temperature at which the inflection on the conductivity curve appears. Low reducibility SiO_2 and Cr_2O_3 act in one direction while Cu_2O acts in the opposite direction. The authors contend that low reducibility oxides act as acceptors and high reducibility oxides as donors. As SiO_2 and Cr_2O_3 concentrations are heightened, the temperature of transition of the conductivity of impurities to that of V_2O_5 increases. Impurities with a low-temperature ionization were found to lower the temperature of initial oxide reduction and increase chemical activity. High-temperature ionization impurities act in the opposite direction. The authors believe that it may become possible to predict the character of the effect of impurities on the properties of oxide. The orig. art. has: 4 figures and 1 table.

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ACCESSION NR: AP4039271

ASSOCIATION: Moskovskiy institut stali i splavov (Moscow Institute
of Steel and Alloys)

SUBMITTED: 27Sep63

SUB CODE: MM

NR REF SOV: 003

ENCL: 00

OTHER: 000

Card 3/3

YELYUTIN, V.P.; PAVLOV, Yu.A.; SHEBOLDAYEV, S.B.; MANUKHIN, A.V.

Initial stages of the interaction of V_2O_5 with carbon. Izv.
vys. ucheb. zav.; chem. met. 7 no.7:5~~29~~²⁵ '64 (MIRA 17:8)

1. Moskovskiy institut stali i splavov.

MANUKHIN, B. N.

"The Action of the Sympathetic Adrenalin System and Its Dependence on Tissue Sulfhydryl Groups." Cand Biol Sci, Inst of Animal Morphology imeni A. N. Severtsov, Moscow, 1954. (KL, No 3, Jan 55)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (12)

SO: SUM No. 556, 24 Jun 55

MANUKHIN, B.N.

1966. Reaction of urea with the -SH groups. B. N. Manukhin
Biochim. 1966, 21: 231-236 (Lab. Gen. and Comp. Physiol.
Inst. animal Morphol., Acad. Sci., Moscow, U.S.S.R.). Urea at
low concn. increases the reactivity of -SH groups i.e. they are
more easily reduced, by enzymes and other thiol compounds. The
decolorisation of Methylene Blue by "unithio", Na₂ dimercapto-
propane disulphate, is more rapid in the presence of urea. The
enzymic activity is intensified, e.g. the O₂ uptake by guinea pig liver
homogenates is increased as long as reducing compounds are also
present in the system; when these are exhausted the activity is
diminished. If the homogenate is previously dialysed, urea causes
an immediate reduction in activity. The increase in -SH group
reactivity is thought to be the cause of the stimulating effect of urea
on O₂ uptake by tissue homogenates, increase in contractile ampli-
tude of an isolated heart, etc. (Russian) A. K. GRZYBOWSKI

Med

MANUKHIN, B. N.

The action of urea on sulfhydryl groups. B. N. Manukhin. *Biochemistry U.S.S.R.* 21, 233-8 (1950) (English translation).—See C.A. 50, 15033d. H. M. R.

MANUKHIN, B.N.

Analysis of the mechanism of action of adrenalin and on the effect of the sympathetic nerve on the heart. *Biul.eksp.biol. i med.* 42 no.10:3-6 0 '56. (MIRA 9:12)

1. Iz laboratorii obshchey i sravnitel'noy fiziologii (zav. - chlen-korrespondent AN SSSR Kh.S.Koshtoyants) Instituta morfologii zhivotnykh AN SSSR, Moskva.

(MYOCARDIUM, effect of drugs on,
epinephrine on perfused prep. (Rus))

(EPINEPHRINE, effects,
on heart perfused prep. (Rus))

MANUKHIN, B.N.

Effect of adrenaline on succinic dehydrogenase activity.
B. N. Manukhin (A. N. Severtsov Inst. Animal Morphol. & Physiology, *Doklady Akad. Nauk S.S.S.R.* 104, 747-8 (1959)). Administration of adrenaline simultaneously with methylene blue to a system of succinic acid in phosphate buffer at pH 7.8; contg. homogenate of frog heart muscle resulted in lowering of succinic dehydrogenase by 4%. If adrenaline is preincubated with methylene blue, the drop is 20%. Thus, the repressing action of the 1st series of expts. can be ascribed to oxidation products of adrenaline.
G. M. Kosolapoff

Manukhin, B.N.

The role of the sulfhydryl groups in realization of the effect
 of adrenaline on tissue respiration. B. N. Manukhin.
 Doklady Akad. Nauk S.S.S.R. 107, 183-84 (1956). Adrena-
 line (I) brings about a considerable increase in the utilization
 of O₂ by the mixed guinea pig liver, which is rich in SH
 groups. In a dialyzed mince I represses O₂ utilization.
 Dialysis removes sol. SH compds. along with other low-
 mol. wt. material. Addn. of cysteine restores the respira-
 tion of the mince. I oxidized by air in weakly basic soln.
 represses respiration of both undialyzed and dialyzed minces
 and the effect is blocked by cysteine. G. M. Kosolapoff

Inst. Animal Morphology in A. N. Severtsov, Acad. Sci. USSR

EXCERPTA MEDICA Sec 2 Vol 12/1 Physiology Jan 59

46. MECHANISM OF INHIBITORY ACTION OF UREA ON THIOL ENZYMES AS EXEMPLIFIED BY MONOAMINE OXIDASE (Russian text) - Manukhin B. N. Lab. of Comp. Physiol., Inst. of Morphol., Acad. of Scis of the USSR, Moscow - BIOKIMIYA 1958, 23/2 (225-229) Tables 5

Upon incubation of urea (0.33 M) with monoamine oxidase (from guinea-pig liver) for 50-70 min. the activity of the enzyme decreased by $25 \pm 7\%$, on the average. Under the same conditions preliminary addition of 1.6 mg./ml. cysteine or Na-2:3-dimercaptopropanesulphonate (unithiol) neutralizes the inhibitory effect of urea almost completely ($-5 \pm 2.8\%$). Unithiol (1.6 mg./ml.) and cysteine (5 mg./ml.) completely restore the activity of the enzyme inhibited by urea. Cystine reduces the activity of monoamine oxidase by $21 \pm 4.7\%$, and cysteine protects the enzyme from this inhibitory action. The inhibitory action of urea is apparently connected with an increased oxidation of the thiol groups of the enzyme and can be eliminated by addition of the proper amount of a substance containing free SH-groups.

17(4)

AUTHOR:

Manukhin, B. N.

SOV/20-127-3-70/71

TITLE:

The Influence of Urea on the Adrenalinic Effect in the Heart and Vessels

PERIODICAL:

Doklady Akademii nauk SSSR, 1959, Vol 127, Nr 3, pp 724-727 (USSR)

ABSTRACT:

The investigation of the effect of metabolic products is of great importance for the solution of the problem of the regulatory mechanisms of physiological processes. Urea, one of the main final products of protein metabolism, is interesting in this respect. The blood of mammals and amphibia contains 20 - 40 mg% of urea. It may, however, exceed 1000 mg% under certain pathological and experimental conditions. In spite of this high degree the effect of urea on physiological processes was not sufficiently investigated. The only fact known was (Refs 1-4) that urea influences the processes of nerve regulation and muscle activity. The given data indicate that the effect of urea on several physiological processes which depend to a large extent on sulph-hydryl groups is considerable. In the investigation of the mechanism of this effect it was found that urea in a

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The Influence of Urea on the Adrenalinic Effect in the Heart and Vessels SOV/20-127-3-70/71

concentration not denaturing the protein increases the reactivity (oxidizability) of the sulph-hydryl groups of low-molecular thiol compounds and ferments (Refs 5, 6). This increase changes the intensity of physiological processes. The present investigation was carried out in order to test the conclusion mentioned with isolated organs and systems. Frog hearts and vessels were used for this purpose. The heart perfused according to Straub had a retained sympathetic innervation. One section of the sympathetic chain was irritated by means of platinum electrodes by the current of the secondary chain of an induction coil. An irritation effect of the n. sympathicus was caused in this way or by the injection of adrenalin. Then the Ringer solution in the cannula was displaced by an iso-osmotic 1% urea solution and the n. sympathicus was again irritated or more adrenalin injected. Then urea was washed out of the heart and the degree of the ionotropic reaction was determined as control. The activity of the heart was temporarily increased by injecting urea into the perfusate. In the irritation of the n. sympathicus the positive ionotropic effect on the background of the heart perfusion with a solution containing urea was missing or considerably weakened. The re-injection of pure Ringer solution

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The Influence of Urea on the Adrenalinic Effect in the SOV/20-127-3-70/71
Heart and Vessels

always caused the restoration of the original ionotropic reaction (Fig 1.a). These experiments showed that the brief influence of a 0.5% urea solution increases the reaction of the vessels to adrenalin whereas a longer lasting influence suppresses it. A 1% urea solution suppresses the vascular reaction mentioned even in the course of a brief influence. Thus it was found that urea has a distinct influence on the effect of adrenalin and the n. sympathicus. This influence on the heart and vessels was not always in good agreement. The increase of the oxidizability of the SH-groups by a 1% urea solution rapidly caused a lack of reactive SH-groups; this lack reduces the intensity of the effective process. The weaker effect of the 0.5% urea solution preserves a sufficient quantity of the SH-groups over a longer period; it causes a longer lasting effect of the intensification of the adrenalin reaction. There are 4 figures, 1 table and 6 Soviet references.

ASSOCIATION: Institut morfologii zhivotnykh im. A. N. Severtsova Akademii nauk SSSR (Institute of Zöomorphology imeni A. N. Severtsov of the Academy of Sciences, USSR)

PRESENTED: April 6, 1959, by A. N. Bakulev, Academician

SUBMITTED: April 6, 1959

Card 3/3

17 (1)

AUTHORS: Manukhin, B. N., Buznikov, G. A. SOV/20-127-4-59/60

TITLE: Quantitative Investigation of Adrenalin and Noradrenalin in the Adrenal Glands of Chicken Embryos

PERIODICAL: Doklady Akademii nauk SSSR, 1959, Vol 127, Nr 4, pp 934 - 936 (USSR)

ABSTRACT: The quantitative investigation of the mediators of the nervous system of growing embryos is necessary for the explanation of an important physiological problem, namely the growth of the regulatory mechanism in the course of ontogenesis. Despite the existence of a considerable number of papers dealing with the system acetyl-cholin-cholesterinase the variations of adrenalin-like substances with age are but little investigated and the methods used not very sensitive (Refs 1-6). The authors investigated the problem mentioned in the title histochemically and chemically. Figures 1 and 2 show the results of adrenalin determination. Its traces can be seen in the adrenal gland as soon as on the ninth day of incubation; determinable quantities appear on the tenth day. The rate of growth increases from the 12th to the 16th day. From the 17th to the 19th day the relative and absolute content of adrenalin increases rapidly.

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Quantitative Investigation of Adrenalin and Noradrenalin SOV/20-127-4-59/60
in the Adrenal Glands of Chicken Embryos

During the 20th day of incubation the absolute content remains unchanged whereas the relative content decreases (because of the increasing weight of the adrenal glands). Together with the hatching of the chicken (21st - 22nd day) the adrenalin content reaches its second maximum. The determinable quantities of noradrenalin appear on the 10th - 12th day of incubation. In some cases the quantity of noradrenalin exceeds that of adrenalin 2-3 times. The quantity of noradrenalin may vary considerably whereas the quantity of adrenalin is constant for several stages of development. The histochemical results (Fig 3) are in complete accordance with the chemical ones mentioned above. The results obtained by the authors differ from those mentioned in the present publications (Refs 1-6). The authors can as yet not decide whether the age curve (Fig 1) of adrenalin content reflects only its synthesis in the adrenal glands or expresses a saldo of the processes: synthesis and discharge of adrenalin from the adrenal glands into the blood. Sudden fluctuations of the noradrenalin content do not seem to influence the adrenalin content. Hence, it may be concluded

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Quantitative Investigation of Adrenalin and Noradrenalin SOV/20-127-4-59/60
in the Adrenal Glands of Chicken Embryos

that the disappearance of considerable quantities of noradrenalin is caused by its discharge into the blood and not by a transformation into adrenalin. During the whole period observed there are less cells in the adrenal gland which can be colored to noradrenalin than those which show a color reaction to the entire catechol-amine. Thus, adrenalin is present in most of these cells. It may be assumed from the distribution of the cells containing noradrenalin (Fig 3) that in the course of embryonic development not only the intensity of the synthesis of biogenic amines is changed but also the functional differentiation of the cells synthesizing these substances. There are 3 figures and 9 references.

ASSOCIATION: Institut morfologii zhivotnykh im. A. N. Severtsova Akademii nauk SSSR (Institute of Animal Morphology imeni A. N. Severtsov of the Academy of Sciences, USSR)

PRESENTED: April 6, 1959, by A. N. Bakulev, Academician

SUBMITTED: April 3, 1959
Card 3/3

BUZNIKOV, G.A.; MANUKHIN, B.N.

Effect of serotonin on embryonic motor activity in nudibranchiate mollusks. Zhur. ob. biol. 21 no.5:347-352 9-0 '60. (MIRA 13:9)

1. Institute of Animal Morphology, Academy of Sciences of the U.S.S.R., Moscow.

(SEROTONIN)

(EMBRYOLOGY--MOLLUSKS)

MANUKHIN, B.N.; BUZNIKOV, G.A.

A new biological method for quantitative determination of
serotonin. Fiziol. zhur. SSSR 46 no. 9:1160-1163 S '60.
(MIRA 13:10)

1. From the Laboratory of General and Comparative Physiology,
Severtsov Institute of Animal Morphology, Moscow.
(SEROTONIN) (BIOLOGICAL ASSAY)

BUZNIKOV, G.A.; MANUKHIN, B.N.

A serotoninlike substance in the embryogenesis of some gastropods.
Zhur. ob. biol. 22 no.3:226-232 My-Je '61. (MIRA 14:5)

1. Institute of Animal Morphology, U.S.S.R. Academy of Sciences.
(SEROTONIN) (EMBRYOLOGY--MOLLUSKS)

MANUKHIN, B.N.

Colorimetric method for the differential determination of
adrenaline and noradrenaline. Biokhimiia 26 no.4:715-722
Zh.-Ag '61. (MIRA 15:6)

1. Laboratory of General and Comparative Physiology, Institute
of Animal Physiology, Academy of Sciences of the USSR, Moscow.
(ADRENALINE) (NORADRENALINE) (COLCRIMETRY)

3
MEYERSON, F.Z., MANUKHIN, B.N., PSHENNIKOVA, M.G., ROZANOVA, L.S.

"On the intermediate metabolism of the myocardium in compensatory hyperfunction and hypertrophy of the heart."

Report submitted, but not presented at the 22nd International
Congress of Physiological Sciences.
Leiden, the Netherlands 10-17 Sep 1962

MANUKHIN, B.N.

Interaction of adrenaline with amino acids. *Biokhimiia* 27 no.4:
615-621 J1-Ag '62. (MIRA 15:11)

1. Laboratory of General and Comparative Physiology, Institute of
Sniiml Morphology, Academy of Sciences of the U.S.S.R., Moscow.
(ADRENALINE) (AMINO ACIDS)

BUZNIKOV, G.A.; MANUKHIN, B.N.

An "inhibitory substance" in mollusk embryos and its role in the control of embryonic motility. Dokl. AN SSSR. 144 no.6:1414-1417 (MIRA 15:6)
Je '62.

1. Institut morfologii zhivotnykh im. A.N.Severtsova Akademii nauk SSSR. Predstavleno akad. A.N.Bakulevym.
(Embryology—Mollusks) (Movement (Physiology))

MANUKHIN, B.N.; BUZNIKOV, G.A.

Effect of an "inhibitory substance" in mollusk embryos on
isolated organs of vertebrates. Dokl. AN SSSR 145 no.1:225-
228 JI '62. (MIRA 15:7)

1. Institut morfologii zhivotnykh imeni A.N. Severtsova AN SSSR.
Predstavleno akademikom A.N. Bakulevym.
(Embryology--Mollusks) (Movement (Physiology))

MAYERSON, F.Z. (Moskva); MANUKHIN, B.N. (Moskva); PSHENICHNIKOVA, M.G.
(Moskva); ROZANOVA, L.S. (Moskva)

Mediator metabolism of the myocardium in compensatory hyper-
function and hypertrophy of the heart. Pat. fiziol. i eksp.
terap 7 no.1:32-36 Ja-F'63. (MIRA 16:10)

1. Iz laboratorii fiziologii i patologicheskoy fiziologii
serdtsa Instituta normal'noy i patologicheskoy fiziologii
(dir. - deystvitel'nyy chlen AMN SSSR prof. V.V. Parin)
AMN SSSR.

(ADRENALINE) (HEART—HYPERTROPHY AND DILATATION)
(CHOLINE)

MANUKHIN, B.N.

Interaction between adrenaline and the adrenaline receptors of the cardiovascular system. Dokl. AN SSSR 149 no.6:1464-1467 Ap '63.
(MIRA 16:7)

1. Laboratoriya obshchey i sravnitel'noy fiziologii im. Kh.S.
Koshtoyantsa Instituta morfologii zhivotnykh im. A.N.Severtsova
AN SSSR. Predstavleno akademikom A.N.Bakulevym.
(ADRENALINE IN THE BODY) (CARDIOVASCULAR SYSTEM)

MANUKHIN, B.N.; BUZNIKOV, G.A.

Serotonin in the embryogenesis of marine invertebrates. Zhur.
ob. biol. 24 no.1:23-29 Ja-F'63 (MIRA 16:11)

1. Laboratory of General and Comparative Physiology, Institute
of Animal Morphology, Academy of Sciences of the U.S.S.R.

*

MANUKHIN, B.N.

Effect of urea on the adrenoreceptors of the blood vessels.
Fiziol. zhur. 50 no.2:205-210 F 1964

M. A. 1964

1. Laboratoriya obshchey i sravnitel'noy fiziologii i fiziologii
S. Koshtoyantsa Instituta morfologii i fiziologii i fiziologii
Severtsova AN SSSR, Moskva.

MANUKHIN, D.N.

Effect of temperature on the kinetics of the adrenergic reaction.
Biokhimiya 30 no.187-11 Ja-F '65. (MIRA 18:6)

i. Institut morfologii zhivotnykh imeni Severtsova AN SSSR, Moskva.

MANUKHIN, B.N.; SUMAROKOV, A.V.

Catechol amines in the myocardium of patients with congenital heart defect. Pat. fiziol. i eksp. terap. 8 no.1:49-52 Ja-F '64.
(MIRA 18:2)

1. Laboratoriya obshchey i sravnitel'noy fiziologii imeni Kh.S. Koshtoyantsa (zav. doktor biolog. nauk T.M. Turpayev) Instituta morfologii zhivotnykh imeni Severtsova AN SSSR, i kafedra propedevicheskoy i professional'noy terapii sanitarno-gigiyenicheskogo fakul'teta (zav. - ~~deystvitel'nyy~~ chlen AMN SSSR prof. B.V. Petrovskiy) I Moskovskogo ordena Lenina meditsinskogo instituta imeni Sechenova.

MANUKHIN, B.N.; VYAZ'MINA, N.M.

Regularities in the hyperglycemic action of adrenaline. Probl.
endok. i gorm. 11 no.5:81-88 S-0 '65. (MIRA 19:1)

1. Laboratoriya obshchey i sravnitel'noy fiziologii imeni
Kh.S. Koshtoyantsa (zav. - doktor biol. nauk T.M. Turpayev)
Instituta morfologii zhitovnykh imeni A.N. Severtsova AN SSSR,
Moskva. Submitted November 18, 1964.

MANUKHIN, G. A.

20778. Manukhin, G. A. Splotka pod goriymi skladami. Sbornik nauch. -issled. Rabot (Arkhang. lesotekhn. in-T im Kuybysheva), XII, 1949, s. 117-26.

SO: LETOPIS ZHURNAL STATEY - Vol. 28, Moskva, 1949.

PIMENOV, Aleksandr Nikolayevich, dotsent, kand.tekhn.nauk; MANUKHIN, German Aleksandrovich, dotsent, kand.tekhn.nauk; BUDYKA, S.Kh., dotsent, retsenzent; DONSKOY, I.P., retsenzent; ORLOV, H.N., inzh.; retsenzent; YEGOROV, A.V., inzh., retsenzent; KOLOSOV, D.V., red.; PITERMAN, Ye.L., red.izd-va; BACHURINA, A.M., tekhn.red.

[Mechanizing rafting operations and vessels] Mekhanizatsiia lesosplavnykh rabot i flot. Moskva, Goslesbumizdat, 1959.
412 p. (MIRA 13:3)

1. Zaveduyushchiy kafedroy transporta lesa Belorusskogo lesotekhnicheskogo instituta (for Budyka). 2. Zaveduyushchiy kafedroy vodnogo transporta lesa Lesotekhnicheskoy akademii im. S.M.Kirova (for Donskoy).
(Lumber--Transportation)

MANUKIAN, R.S. [Mamukyan, R.S.], inzh.; PAVERMAN, S.V., inzh.

Use of calculating machines in computing optimum load distribution
between various types of aggregates in a thermoelectric power plant.
Elektroenergiia 14 no.4:18-22 Ap '61.

MOLCHANOV, Yuriy Leonidovich; MANUKHIN, V.L., nauchnyy red.;
GRIBAKIN, D.V., red.; GURDZHIYEVA, A.M., tekhn. red.

[Trade is the way to peace and friendship] Torgovlia - put' k
miru i druzhbe. Leningrad, Ob-vo po rasprostraneniu polit. i
nauchn. znaniy RSFSR, 1961. 58 p. (MIRA 15:3)
(Russia--Commerce)

8 (6)

SOV/91-59-11-6/27

AUTHOR: Manukhin, V.N., Engineer

TITLE: Sealing of Boiler Tube Ends in a Gramma-VI Locomobile

PERIODICAL: Energetik, 1959, Nr 11, pp 13-14 (USSR)

ABSTRACT: The author describes the welding of fire tube ends on two Gramma-VI locomobile boilers at a factory power plant. Fire tube leaks were observed on two of the five locomobile boilers. Repeated beading remained without any positive results, since the openings for the fire tubes were elliptical. The leaking tubes were removed and the holes were reamed by 0.12-0.18 mm and counterbored. The fire tubes were installed and beaded. The boiler was filled with water at a temperature of 55°C. The tubes were then welded by alternating current, 220-230 amps. The welding was performed within 12 hours by a qualified welder. He used 4 mm E42A electrodes with OMM-5 coating. No leaks or cracks were observed on the welded fire tubes during more than 18 months of operation. According to the

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SOV/91-59-11-6/27

Sealing of Boiler Tube Ends in a Gramma-VI Locomobile

author, this shows that fire tubes of Gramma-VI boilers may be welded. There is 1 diagram.

Card 2/2

OZERYANAYA, I.N.; STEPANOV, G.K.; MAMUKHINA, T.I.; BELYAYEVA, G.I.

Behavior of EIA-1, EI-559A, EI-435, and EI-437B alloys in fused carbonates. Trudy Inst. elektrokhim. UFAN SSSR no.5:79-87 164.

(MIRA 18:2)

ACC NR: AP6036115

SOURCE CODE: UR/0365/66/002/006/0700/0704

AUTHOR: Ozeryanaya, I. N.; Manukhina, T. I.; Belyayeva, G. I.; Burakova, E. A.;
Smirnov, M. V.

ORG: Academy of Sciences SSSR, Ural Branch, Institute for Electrochemistry (Akademiya
nauk SSSR, Ural'skiy filial, Institut elektrokhimii)

TITLE: Behavior of chromium nickel alloys in carbonate melts

SOURCE: Zashchita metallov, v. 2, no. 6, 1966, 700-704

TOPIC TAGS: chromium containing alloy, nickel containing alloy, corrosion rate,
lithium compound, sodium compound

ABSTRACT: The experiments were carried out in a low melting binary eutectic mixture of lithium and sodium carbonates (melting point 497°). To suppress thermal decomposition and possible hydrolysis of the carbonates, the salts were melted in an atmosphere of carbon dioxide gas. The alloys investigated, EI-559A and EI-437B, are solid solutions in nickel of the following elements: EI-559A--18% Cr; 23% Fe; 3.5% Al; other elements about 1%; EI-437B--22% Cr; 4% Fe; 2.5% Ti; about 1% Al. Samples of the alloys, in the form of plates with a polished surface area of 8 cm^2 , were placed in an alundum crucible with the melt. After the experiment, the samples were washed of traces of salts in distilled water, and dried to constant weight. The weight increase

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UDC: 620.193.43

ACC NR: AP6036115

was determined as the average of three results. In all cases, the surface of the samples was covered with a film. The solidified salt melt was analyzed for its content of Ni, Cr, Al, Mn, and Fe. The analytical results are shown in a table. Based on the experimental data, the following conclusions were drawn: 1) in the temperature interval 600-800° there is formed on the surface of nickel chromium alloys a film composed of the solid products of corrosion; this film is of the spinel type and for Alloy EI-559A has a structure close to $Ni(Fe_xCr_y)_2O_4$, and for Alloy EI-437B close to $NiCr_2O_4$; 2) at 600°, the alloys are covered with a dense single zone oxide film and the corrosion is controlled by the diffusion of the reagents through this film, in accordance with a parabolic law. The protective properties of this film are greater for Alloy EI-537B than for Alloy EI-559A; 3) at a temperature of about 800°, the corrosion rates of the alloys draw close together, as a result of the similar structure and composition of the oxide films under these conditions. Orig. art. has: 4 figures and 3 tables.

SUB CODE: 07, 11/ SUBM DATE: 09Ncv65/ ORIG REF: 006/ OTH REF: 001

Card 2/2

Manukhina, Z.P.

MANUKHINA, Z.P.

Methods for accelerating the reorganization of the function of transplanted muscles by special exercise therapy. Trudy LSGMI 29: 228-239 '56. (MLRA 10:9)

1. Fiziologicheskaya laboratoriya (zav. - prof. Yu.M.Uflyand) i Otdeleniye lechebnoy fizicheskoy kul'tury (nauchnyy konsul'tant - prof. A.B.Gandel'sman) Instituta im. Turnera.

(MUSCLES, transplantation

re-educ. of transpl.musc. by exercise ther. (Rus))

(EXERCISE THERAPY,

re-educ. of transpl. musc. (Rus))

MANUKHINA, Z. P. Cand Med Sci -- (diss) "Teaching patients to walk after operations of divided transplantation of shin flexors on patellae in ~~paralysis~~ paralysis of the ~~musculus~~ musculus quadriceps femoris." Len, 1959. 20 pp (Len Sanitary Hygiene Med Inst), 390 copies (KL, 52-59, 126)

LYANDRES, Z.A., prof.; BORTFEL'D, S.A., starshiy nauchnyy sotrudnik;
GOLOVINSKAYA, N.V., starshiy nauchnyy sotrudnik;
ZAKREVSKIY, L.Z., starshiy nauchnyy sotrudnik; ZAYDEL', O.P.,
nauchnyy sotrudnik; MANUKHINA, Z.P., nauchnyy sotrudnik;
BOYKOVA, O.S., nauchnyy sotrudnik

Concepts of the abnormalities of posture and scoliosis in
children. Ortop., travm. i protez. 25 no.11:81-85 N '64.

(MIRA 18:11)

1. Iz Detskogo ortopedicheskogo Instituta imeni G.I. Turnera
(dir. - prof. M.N. Goncharova), Leningrad. Adres avtorov:
Leningrad M-136, Lakhtinskaya ul., d.10/12, Detskiy ortopedi-
cheskiy institut Turnera. Submitted January 27, 1964.

MANUKHOV, A. V.

"Concerning the Approximation of Thin Layers by Derivative Models," by A. V. Manukhov, Leningrad Branch of the Mathematics Institute imeni V. A. Steklov, Academy of Sciences USSR, Izvestiya Akademii Nauk SSSR, Seriya Geofizicheskaya, No 12, Dec 56, pp 1400-1410

"In the solution of problems on the diffusion of seismic waves in stratified mediums, mathematical difficulties coupled with the presence of a thin layer in the medium are often encountered."

The problem of the substitution of such layers with more suitable vibrating membranes is considered in the article. The solution for a system of a fluid layer-membrane-liquid semispace applicable to the problem of seismic modeling is constructed and studied. The results were qualitatively compared with observed data.

Sum 1258

MANUKHOV, A V

AUTHORS: See Table of Contents Call Nr: 1119002

TITLE: A Dynamic Theory of the Propagation of Seismic Waves
(Voprosy dinamicheskoy teorii rasprostraneniya
seysmicheskikh voln) First Collection (Sbornik 1)

PUB. DATA: Gosudarstvennoye nauchno-tekhnicheskoye izdatel'stvo
neftyanoy i gorno-toplivnoy literatury, Leningrad-
skoye otdeleniye, Leningrad, 1957, 386 pp., 1900
copies.

ORIG. AGENCY: Ministerstvo neftyanoy promyshlennosti SSSR.
Nauchno-issledovatel'skiy institut geofizicheskikh
metodov razvedki (NIIGR)

EDITORS: Editors: Polshkova, M. K. and Petrashen', G. I.;
Editor-in-Chief: Fedotova, M. I.; Tech. Ed.:
Gennad'yeva, I. M.; Corrector: Segal', Z.G.

PURPOSE: This collection is intended for seismologists and
particularly exploration seismologists and senior
university and graduate students interested in geo-
physics and in the theories of elasticity and
acoustics.

Card 1/6

A Dynamic Theory of the Propagation of Seismic Waves (Cont.)

Call Nr: 1119002

COVERAGE:

This book is the result of studies by specialists in the dynamic theory of elasticity and theoretic seismology at the Leningrad Branch of the Mathematics Institute, Academy of Sciences, and Leningrad University. This symposium presents a basic dynamic theory of propagation of seismic waves in plane-parallel isotropic media and a method for the quantitative application of theoretical conclusions to the fields of seismology and seismic exploration. The treatment is strictly mathematical and simple methods of constructing wave fields are indicated. The shift of wave fields, a result of reflections from one or more horizons is made evident and the rules for determining such a shift of components are established. Formulas are given for the main components in the displacement of wave fronts, as well as methods for constructing theoretical seismograms for the reflected and first-arrival waves. Some of the conclusions appear in print for the first time. The increased complexity of geological-structural prob-

Card 2/6

Call Nr: 1119002

A Dynamic Theory of the Propagation of Seismic Waves (Cont.)

lems in oil-bearing areas diminishes the efficiency of existing techniques. Therefore a careful study of these articles may lead to application of the dynamic theory described in interpreting seismograms. The first article (pp. 7-69) by Petrashen' discusses the most typical problems in wave propagation and the method of their solution. Simplification of the final formulas computed for the components of the fields of displacement is the main consideration. The second article by Petrashen' (pp. 70-163) describes the general quantitative theory of reflected and first-arrival waves. The third article, that by Petrashen' and Manukhov, considers wave intensities and data on the parameters required in composing theoretical seismograms. The fourth and fifth articles examine the method of composing such theoretical seismograms. The concluding articles examine wave propagation in an elastic semi-space. No personalities are mentioned; there are bibliographic references at the end of each article.

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Call Nr: 1119002

A Dynamic Theory of the Propagation of Seismic Waves (Cont.)

TABLE OF CONTENTS

Preface	4
Ch. I. Petrashen', G. I. Solution of Problems of Propagation of Seismic Waves in Isotropic Media of Plane-parallel Layers of Sufficient Thickness (Guide)	7-69
No personalities are mentioned; there are 4 references, all USSR.	
Ch. II. Petrashen', G. I. General Quantitative Theory of Reflected and First-Arrival Waves Excited in Layered Media With Plane-Parallel Boundaries.	70-163
No personalities are mentioned; there are 9 references, all USSR.	
Ch. III. Petrashen', G. I., <u>Manukhov, A. V.</u> Use of Tables in computing the Intensity of Reflected and First-Arrival Waves	164-212
No personalities are mentioned; there are 6 references, all USSR.	

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Call Nr; 1119002

A Dynamic Theory of the Propagation of Seismic Waves (Cont.)

Ch. IV. Smirnova, N. S., Tsepelev, N. V. Berdennikova, N.I.
Composition of Theoretical Seismograms for Reflected
and First-Arrival Waves Propagated in Plane-
parallel Media. 213-248

No personalities are mentioned; there are 4
references, all USSR.

Ch. V. Malincvskaya, L. N. Composition of Theoretical
Seismograms 249-282

No personalities are mentioned; there are 5
references, all USSR.

Ch. VI. Manukhov, A. V. Exact Theoretical Seismograms for
Wave Propagation in an Elastic Semi-space 283-295

No personalities are mentioned; there are 3
references, all USSR.

Card 5/6

- Call Nr: 1119002
- A Dynamic Theory of the Propagation of Seismic Waves (Cont.)
- Ch. VII. Ogurtsov, K. I., Uspenskiy, I. N. and Yermilova, N.I.
Quantitative Investigations of Wave Propagation in
the Simplest of Elastic Media 296-365
- No personalities are mentioned; there are 5
references, all USSR.
- Ch. VIII. Some Explanations for the First Four Articles
of this Collection 366-386

AVAILABLE: Library of Congress

Card 6/6

Matveeva, N.N.
MATVEYEVA, N.N.; SMIRNOVA, Z.M.; KUSTOVA, Z.M.; VASIL'YEVA, M.V.; GEL'CHINSKIY, B.Ya.; OZEROV, D.K.; MANUKHOV, A.V.; GOL'TSMAN, F.M.; PETRASHEN', G.I., red.; VOLKHOVER, R.S., tekhn. red.

[Papers on the quantitative study of seismic wave dynamic] Materialy kolichestvennogo izucheniia dinamiki seismicheskikh voln. Pod rukovodstvom i red. G.I.Petrashen'. [Leningrad] Izd-vo Leningr. univ. Vol. 1. 1957. 420 p. Vo.2. 1957. 152 p. (MIRA 11:2)

1. Akademiya nauk SSSR. Matematicheskiy institut, Leningradskoye otdeleniye.
(Seismometry)

PETRASHEN', G.I.; MANUKHOV, A.V.

Methods of computing reflected and leading wave intensities by
means of tables. Vop. din. teor. raspr. seism. voln. no.1:164-
212 '57.

(Seismic waves)

(MLRA 10:8)

MANUKHOV, A.V.

On certain precise theoretical seismograms related to the case
of elastic wave propagation in semispace. Vop. din. teor. raspr.
seism. voln. no.1:283-295 '57. (MLRA 10:8)
(Seismic waves) (Elastic waves)

BUROVA, A.V.; VORONIN, Yu.A.; GEL'CHINSKIY, B.Ya.; MANUKHOV, A.V.;
PETRASHEN', G.I., red.; VOLKHOVER, R., tekhn.red.

[Materials on a quantitative study of seismic wave dynamics] Materialy kolichastvennogo izucheniia dinamiki seismicheskikh voln. Pod rukovodstvom i red. G.I.Petrashen'. Leningrad, Izd-vo Leningr. univ. Vol.3.[Atlases of graphs representing moduli and arguments of complex reflection-refraction coefficients of elastic waves, directivity functions of basic point sources, coefficients of reflection from a diurnal surface, coefficients of conversion, and nomograms of auxiliary coefficients necessary for computing geometrical divergences of rays] Atlasy grafikov modulei i argumentov kompleksnykh koeffitsientov otrazheniia-prelomleniia uprugikh voln, funktsii napravlennosti osnovnykh tochechnykh istochnikov, koeffitsientov otrazheniia ot dnevnoi poverkhnosti, koeffitsientov konversii i nomogrammy vspomogatel'nykh koeffitsientov, neobkhodimykh dlia vychisleniia geometricheskikh raskhozhdeniia luchei. 1958. 323 p. (MIRA 13:1)

1. Akademiya nauk SSSR. Matematicheskii institut. Leningradskoye otdeleniye.

(Seismology--Tables, etc.)

MANUKHOV V.A.
MANUKHOV, V.A., master.

Reconditioning transformer oils. Elek. i tepl. tiaga no.12:21 D '57.
(MIRA 11:1)

1. Moskovskiy energouchastok Oktyabrskoy dorogi.
(Electric transformers)

BULATOV, Toriy Antonovich, inzh.; GRIN'KOV, Boris Nikolayevich,
inzh.; KUT'IN, Aleksandr Ivanovich, inzh.; MANUKHOV,
Vitaliy Andreyevich, inzh.; SUKHOPRUDSKIY, N.D., red.;
~~ARBASHEVA, T.V., red.~~

[Automatic systems of d.c. traction substations] Ustrois-
stva avtomatiki tiagovykh podstantsii postoiannogo toka.
[By] T.A.Bulatov i dr. Moskva, Transport, 1965. 215 p.
(MIRA 18:2)

MANUKHOV, V.A., starshiy elektromekhanik

Some problems concerning the automatic control of traction substations.
Elek. i tepl. tiaga 5 no.3:22-23 Mr '61. (MIRA 14:6)

1. Moskovskiy uchastok energosnabzheniya Oktyabr'skoy dorogi.
(Electric railroads—Substations)
(Automatic control)

MANUKHOVA, K. V.

Dissertation: "Flotation of particles of different degrees of coarseness from a monomineral mixture such as apatite." Cand Techn Sci, Leningrad Mining Institute, Leningrad, 1954. (Referativnyy Zhurnal-Akademiya, no 11, Moscow, Jun 54)

SO: S M 313, 23 Dec 1954

ACC NR: AP7001219 SOURCE CODE: UR/0141/66/009/006/1196/1201

AUTHOR: Braginskiy, V. B.; Manukin, A. B.

ORG: Moscow State University (Moskovskiy gosudarstvennyy universitet)

TITLE: One radiophysical method of measuring small mechanical vibrations

SOURCE: IVUZ. Radiofizika, v. 9, no. 6, 1966, 1196-1201

TOPIC TAGS: vibration measurement, test method, mechanical vibration

ABSTRACT: A circuit illustrating the ultimate capabilities of parallel plate capacitor pickup method of measuring small mechanical vibrations is shown in Fig. 1. Capacitor C, formed by modifying the tuning fork construction (see Fig. 2), is included in the transistor (P-401) oscillator circuit. To measure the minimum detectable distance between the vibrating capacitor plates the fork is made to resonate with frequency f_M . This distance may be calculated from the value of f_M , fork driving generator (1) amplitude U, constant bias V, and capacitor plate area. The value of the output signal corresponding to this distance may be measured by a galvanometer or a voltmeter. The output signal is generated as follows. The oscillator signal (nominally 5 Mc) is frequency

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modulated by capacitor C and mixed with a reference signal (output frequency, approximately 0.1 Mc). The resulting signal is applied to an amplifier, tuned to a frequency slightly different from the mixer

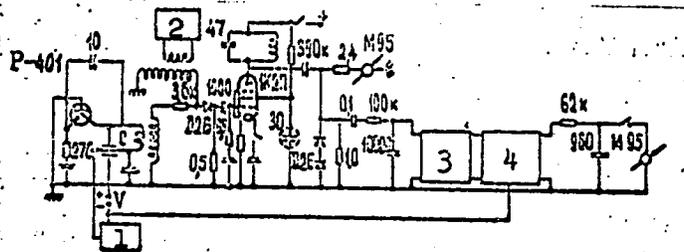


Fig. 1. Mechanical vibration measurement circuit

- 1 - Driving generator;
- 2 - reference mixer oscillator;
- 3 - amplifier;
- 4 - synchronous detector.

output frequency, which converts FM into an amplitude-modulated signal. The AM signal is amplified, detected, and measured. Tests were made to establish the minimum detectable mechanical vibration amplitude. At

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$f_M = 0.1$ and 400 cps these amplitudes were 2×10^{-8} cm and 3×10^{-11} cm, respectively, with a 0.95 confidence index. The accuracy of measurement and consequently the minimum detectable vibration amplitude is

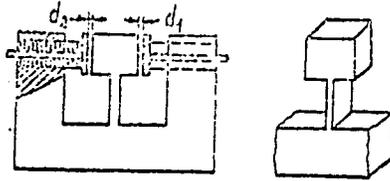


Fig. 2. Tuning fork construction modelling a double capacitor

analyzed as a function of oscillator amplitude and frequency deviation caused by shot effect, flicker noise, microphonics, and mixer noise. If the shot noise is assumed to be predominant, the spectrum density of oscillator frequency deviation may be calculated from the values for the minimum detectable vibration amplitudes. For the above values these are $4 \times 10^3 \text{ sec}^{-1}$ and 1.7 sec^{-1} , respectively. Orig. art. has: 3 figures and 3 formulas. [WA-75]

SUB CODE: 14/

SUBM DATE: 27Sep65/

ORIG REF: 006/

Card 3/3

OTH REF: 003/ ATD PRESS: 5111

BARDYSHEV, I.I.; MANUKOV, E.N.

Nature of hydrocarbons obtained in the cleavage of HCl from
liquid Δ^3 -carene hydrochlorides. Zhur. org. khim. 1 no.8:
1426-1430 Ag '65. (MIRA 18:11)

1. Institut fiziko-organicheskoy khimii AN Belorusskoy SSR.

MANUKOV, N.

Better organization of the repair of agricultural machinery.
Inform. biul. VDNKH no.2:29-30 F '65. (MIRA 18:3)

1. Glavnyy metodist pavil'ona "Mekhanizatsiya i elektrifikatsiya sel'skogo khozyaystva" na Vystavke dostizheniy narodnogo khozyaystva SSSR.

GRUSHIN, F.Ye. ; MANUKOV, N.P.; KRYUKOV, V.L., redaktor; PEVZNER, V.I.,
tekhnicheskij redaktor

[The "Machine-tractor station" pavilion; a guidebook] Pavil'on
"Usad'ba MTS"; putevoditel'. Moskva, Gos. izd-vo selkhoz. lit-ry,
1956. 26 p. (MLBA 9:10)

1. Moscow. Vsesoyuznaya sel'skokhozyaystvennaya vystavka, 1954-
2. Direktor pavil'ona (for Grushin)
(Machine-tractor stations)
(Moscow--Agricultural exhibitions)

M. N. K. V. N. P.

ALEKSEYEV, N.A.; ASLANOV, A.N.; VASIN, G.D.; VORONINA, Ye.P.; GRIGORENKO, G.P.; GRUSHIN, F.Ye.; DEPARMA, V.N.; DRESVYANNIKOVA, D.F.; DUBININA, K.F.; KITAYEV, I.Ye.; KULIKOV, N.N.; ~~MANUKOV, H.P.~~; MEL'NIKOV, A.I.; REZNOV, I.P.; PESTRYAKOV, A.I., redaktor; PAVLOVA, M.M., tekhnicheskii redaktor; SOKOLOVA, N.N., tekhnicheskii redaktor

[Mechanization and electrification at the All-Union Agricultural Exhibition; 1956 guidebook] Mekhanizatsiia i elektrifikatsiia na Vsesoiuznoi sel'skokhoziaistvennoi vystavke; putevoditel', 1956. Moskva, Gos. izd-vo sel'khoz. lit-ry, 1956. 305 p. (MLRA 10:3)
(Moscow--Agricultural machinery--Exhibitions)

MANUKOV, N.P.

DOMBRACHEVA, Ye.F.; KOZLOV, A.M.; KRICHEVSKIY, M.Ye.; LAPITSKIY, M.A.;
LISTOVSKIY, N.D.; LUZHANOV, M.A.; MANUKOV, N.P.; MICHURINA, V.V.;
POLYACHENKO, A.V.; TIMOFYEV, N.A.; TSVETKOV, V.S.; CHISTYAKOV,
V.D.; KOPYKIN, P.A., inzh., red.; KRYUKOV, V.L., red.; KOBILYAKOV,
L.M., red.; ZUBRILINA, Z.P., tekhn. red.

[Practices in tractor repair] Opyt remonta traktorov. Moskva, Gos.
izd-vo sel'khoz. lit-ry, 1958. 301 p. (MIRA 11:7)

(Tractors--Maintenance and repair)

MANUKOV, N., inzh.

Second life of the truck tire. Tekh. v sel'khoz. 20
no.7:56-59 JI '60. (MIRA 13:9)
(Motortrucks--Tires)

MANUKOV, Nikolay Pavlovich; PESTRYAKOV, A.I., red.; PROKOF'YEVA, L.N.,
tekh. red.

[New techniques in the repair of agricultural machinery and
tractors] Novoe v remonte mashinno-traktornogo parka. Moskva,
Izd-vo sel'khoz. lit-ry, zhurnalov i plakatov, 1961. 223 p.
(MIRA 15:4)

(Tractors—Maintenance and repair)

(Agricultural machinery—Maintenance and repair)

BARABANOV, V., inzh.; MANUKOV, N., inzh.

Repair and maintenance of storage batteries. Tekh.v sel'khoz. 21
no.8:75-79 Ag '61. (MIRA 14:7)

(Storage batteries)

MANUKOV, Nikolay Pavlovich; PESTRYAKOV, A.I., red.; DEYEVA, V.M.,
tekh. red.

[New trends in the repair of machines and tractors] Novoe
v remonte mashinno-traktornogo parka. Izd.2., perer. i dop.
Moskva, Sel'khozizdat, 1963. 471 p. (MIRA 17:1)

CHKHAIDZE, L., mladshiy nauchnyy sotrudnik; CHITAVA, Z.; ORLOV, Yu., mladshiy nauchnyy sotrudnik; MANUKOV, R.; ZAKOMORNYI, G., mekhanik

If it's manufactured in the Soviet Union it is of a superb quality.
Radio no.2:34-35 F '64. (MIRA 17:3)

1. Gruzinskiy politekhnicheskii institut (for Chkhaidze).
2. Starshiy inzh. Vychislitel'nogo tsentra AN Gruzinskoy SSR (for Chitava).
3. Institut kibernetiki AN Gruzinskoy SSR (for Orlov).
4. Starshiy tekhnik Vychislitel'nogo tsentra AN Gruzinskoy SSR (for Manukov).
5. Institut elektroniki AN Gruzinskoy SSR (for Zakomornyy).

ARGO22471

SOURCE CODE: RR/0169/66/000/003/D023/D023

AUTHOR: Besayátov, B. I.; Vasil'yev, V. A.; Cherkasova, I. V.; Shalimov, B. P.;
Manukov, V. S.

TITLE: The seismic characteristic of the border zone of the Caspian Basin and possibilities of improving the effectiveness of the MOV method.

SOURCE: Ref. zh. Geofiz, Abs. 3D143

REF SOURCE: Tr. Nizhne-Volzsk. n.-i. in-t geol. i geofiz., vyp. 2, 1964, 67-74

TOPIC TAGS: seismic prospecting, geologic exploration

TRANSLATION: Difficulties in obtaining high caliber seismic data are reviewed. These include: regular waves of interference, complicated relief of the first sharp boundary, thin-beddedness of the principal strata, echoes, etc. Methods of overcoming these difficulties are considered. The most effective means of eliminating the effects of interfering waves are: proper positioning of shots, shorter shot intervals (to 250 m if the geology is difficult), and longer shot intervals (up to 1000 m, if echoes are expected). The RNP method is recommended for the regions where the first reflecting surface has a complicated relief. Salt domes should be located gravimetrically. The usual modification of the MOV method should be avoided. Difficulties due to thin stratification and effects of adjoining media are best overcome by arranging the geophones

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UDC: 550.834.5

ACC NR: AR6022471

into several groups separated by wide transmission bands in the range of medium and high frequencies. More massive groupings and multifrequency profiling are advisable for regions where echoes are expected. H. Mikhno.

SUB CODE: 08

Card 2/2

MANUKOVSKAYA, G.P.

Changes in the nature of muscle innervation in young gymnasts during the training for gymnastic skill. *Fiziol.zhur.* 45 no.11: 1317-1321 N '59. (MIRA 13:5)

1. From the department of physiology, P.F. Lessgaft Institute of Physical Culture, Leningrad.

(ELECTROMYOGRAPHY)

(PHYSICAL EDUCATION AND TRAINING)

(GYMNASTICS)

Мануковская Л. Г.

7 7
Catalytic production of p-toluic acid. R. V. Langeroy,
R. S. Rafferty, and L. G. Manukovskaya. U.S.P. 2,811,
107, 179, Aug. 28, 1957. p-Xylene is oxidized with mol. O₂
in the presence of Co naphthenate as catalyst to give p-toluic acid.
M. H. H. H.

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MANUKOVSKAYA, L.G.; SUVOROV, B.V.; RAFIKOV, S.R.

Oxidation of organic compounds. Report No.17: Autoxidation of
n-butyraldehyde, benzaldehyde and p-tolualdehyde. Trudy Inst.
khim.nauk AN Kazakh. SSR 2:188-196 '58. (MIRA 12:2)
(Oxidation) (Aldehydes)

MANUKOVSKAYA, L.G.; BAFIKOV, S.R.; SUVOROV, B.V.

Oxidation of organic compounds. Report No. 21: Liquid-phase catalytic oxidation of n-toluic acid and some of its derivatives by molecular oxygen. Izv.AN Kazakh.SSR.Ser.khim. no.2: 62-67 '59. (MIRA 12:8)

(Toluic acid)

(Oxidation)

SOV/79-29-1-35/74

AUTHORS: Manukovskaya, L. G., Suvorov, B. V., Rafikov, S. R.

TITLE: Oxidation of Organic Compounds (Okisleniye organicheskikh soyedineniy) XIX. On the Catalytic Oxidation of p-Xylene With Molecular Oxygen in the Liquid Phase (XIX. O zhidkofaznom kataliticheskom okislenii p-ksilola molekulyarnym kislородom)

PERIODICAL: Zhurnal obshchey khimii, 1959, Vol 29, Nr 1, pp 158-165 (USSR)

ABSTRACT: The oxidation of the alkyl benzenes with molecular oxygen is one of the most comfortable syntheses of noble oxygen-containing aromatic compounds. At present, acetophenone and methyl-phenyl carbinol are thus obtained from ethyl benzene (Ref 1), as well as the hydrogen peroxide of cumene from cumene (Ref 2), the p-tertiary butylbenzoic acid from p-tertiary butyl toluene (Ref 3), etc. In the last years many similar methods of synthesizing the terephthalic acid from p-xylene were devised from among which that having four stages (Ref 4) proved to be the cheapest. Although many scientists investigated the catalytic oxidation in the liquid phase (Refs 5-8) and described the technological scheme of the process in publications (Ref 4), some questions regarding the reaction mechanism re-

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SOV/79-29-1-35/74

Oxidation of Organic Compounds. XIX. On the Catalytic Oxidation of p-Xylene
With Molecular Oxygen in the Liquid Phase

mained unsolved, e. g. that on the nature of the catalytic action, on the dependence of the reaction rate and the yield of oxidation products on various concentrations as well as the question of the nature and succession of the transformation of the p-xylene itself based on oxidation, etc. The solution of some of these problems was the purpose of this paper. It was established that the oxidation of p-xylene without catalyst proceeds very slowly, wherein also the aromatic acids are formed in negligible quantities only. In the presence of cobalt acetate below 130° the oxidation proceeds at a very low rate as well. For this reason, all following experiments with the catalyst were carried out at 133-135°. Thus, the oxidation of p-xylene with molecular oxygen in the presence of cobalt acetate in the liquid phase was investigated, p-toluic and terephthalic acid resulting as the main products. In figure 1 the results of two experimental series with 0.1 and 1% cobalt acetate are presented in order to determine the influence exerted by the duration of the experiment upon the oxidation of p-xylene. Figure 3 illustrates the dependence of the yield of the main oxidation products of p-xylene on the concentration

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SOV/79-29-1-35/74

Oxidation of Organic Compounds. XIX. On the Catalytic Oxidation of p-Xylene With Molecular Oxygen in the Liquid Phase

of the catalyst. There are 5 figures, 1 table, and 21 references, 14 of which are Soviet.

ASSOCIATION: Institut khimicheskikh nauk Akademii nauk Kazakhskoy SSR
(Institute of Chemical Sciences of the Academy of Sciences
Kazakhskaya SSR)

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MANUKOVSKAYA, L. G.; SOLOMIN, A. V.; SUVOROV, B. V.; RAFIKOV, S. R.

Continuous method of production of terephthalic acid by the liquid phase oxidation of m-xylene. Neftekhimia 2 no.4:531-535. J1-Ag '62. (MIRA 15:10)

1. Kazakhskiy gosudarstvennyy sel'skokhozyaystvennyy institut i Institut khimicheskikh nauk AN KazSSR, Alma-Ata.

(Terephthalic acid) (Xylene)

MANUKOVSKIY, N.

Fuel-servicing trucks extinguish fires. Pozh. delo 5 no.5:23 My '59.
(MIRA 12:6)

1. Nachal'nik UVD Omskogo oblispolkoma.
(Motortrucks) (Fire extinction)

MANUKOVSKIY, Nikolay Fedorovich, Geroy Sotsialisticheskogo Truda;
KATSEEL'SON, S.M., red.; SAVCHENKO, Ye.V., tekhn.red.

[Let us employ over-all mechanization on the basis of technical plans; practices of the tractor brigade on the Kirov Collective Farm, Umanskiy District, Voronezh Province] Primeniaem kompleknuu mekhanizatsiiu na osnove tekhnologicheskikh kart; opyt traktornoj brigady kolkhoza imeni Kirova Novo-Usmanskogo raiona Voronezhskoi oblasti. Moskva, Izd-vo "Znanie," 1960. 40 p. (Vsesoiuznoe obshchestvo po rasprostraneniu politicheskikh i nauchnykh znani. Ser.5, Sel'skoe khoziaistvo, no.10).

(MIRA 13:6)

(Umanskiy District--Tractors)

MANUKOVSKIY, N.F., Geroy Sotsialisticheskogo Truda, brigadir; LEBEDEVA, A.T., zven'ev. Geroy Sotsialisticheskogo Truda; KOLYADINA, A.A.; GUSEVA, N.F.; GUBANOVA, M.T.; GURENKO, A.G., svinar'; SVIRIDOV, I.G., svinar'; SHERSHOVA, M.V., zootekhnik; GORIN, D.P.; TAMBOVTSEV, P.K.; ULIN, I.; SAYTANIDI, L.D., tekhn. red.

[Leaders of socialist competition from Voronezh tell their stories]
Rasskazyvaiut peredoviki-voronezhtsy. Moskva, Izd-vo M-va sel'khoz.
RSFSR, 1960. 54 p. (MIRA 14:11)

1. Brigada kompleksnoy mekhanizatsii kolkhoza imeni Kirova Voronezhskoy oblasti (for Mamukovskiy). 2. Kolkhoz "Rossiya" Voronezhskoy oblasti (for Lebedeva, Shershova). 3. Ryadovyye zvana vysokoy proizvoditel'nosti kolkhoza imeni Stalina Voronezhskoy oblasti (for Kolyadina, Guseva). 4. Zven'yevaya kolkhoza imeni S.M. Kirova Voronezhskoy oblasti (for Gubanova). 5. Sovkhoz "Vorob'yevskiy" Voronezhskoy oblasti (for Gurenko). 6. Sovkhoz "Maslovskiy" Voronezhskoy oblasti (for Sviridov). 7. Predsedatel' kolkhoza "Podgornoye" Voronezhskoy oblasti (for Gorin). 8. Direktor sovkhoza "Vtoraya pyatiletka" Voronezhskoy oblasti (for Tambovtsev).
(Voronezh Province--Stock and stockbreeding)
(Socialist competition)

MANUKOVSKIY, Nikolay Fedorovich, Geroy Sotsialisticheskogo Truda. Prini-
mal uchastiye PETROV, V.P., inzh., KOBILYAKOV, L.M., red.; GRESSENOVA,
V.P., tekhn.red.; TRUKHINA, O.N., tekhn.red.

[Over-all mechanization on collective farms] Kompleksnaya mekhani-
zatsiya v kolkhoze. Moskva, Gos.izd-vo sel'khoz.lit-ry, 1960.
70 p. (MIRA 13:7)

1. Mekhanizator kolkhosa imeni Kirova Novo-Usmanskogo rayona Voro-
nezhskey oblasti (for Manukovskiy).
(Farm mechanization)

MANUKOVSKIY, N.F., Geroy Sotsialisticheskogo Truda; SREBRYANSKIY, A.V.,
kand.tekhn.nauk; KUVSHINOV, Ya.I., kand.tekhn.nauk

Operation of thw MTZ-50 and T-30 tractors in Voronezh Provinces.
Trakt.i sel'khoz mash. 31 no.9:5-7 S '61. (MIRA 14:10)
(Voronezh Province—Tractors)

MANUKOVSKIY, Nikolay Feodorovich, Geroy Sotsialisticheskogo Truda,
deputat Verkhovnogo Soveta RSFSR; ZAGORSKIY, G., red.;
USTINOVA, S., tekhn. red.

[Livestock and feeds in the hands of the machinery operator;
answers to the questions of young machinery operators] Skot i
korma v rukakh mekhanizatora; otvety na voprosy molodykh
mekhanizatorov. Moskva, Mosk. rabochii, 1962. 52 p.

(MIRA 15:10)

(Farm mechanization)

MANUKOVSKIY, N.F.; POLCNETSKIY, S.D.; OREKHOV, N.I.; SYCHEV, A.F.;
BOLDYREV, M.D.; SEMENOV, V.M.; nauchnyy red.; KRYUCHKOV,
V.L., red.; CHIRKOV, A.Ya., red.; PERSON, M.N., tekhn. red.

[Over-all mechanization of corn growing and harvesting]Kom-
pleksnaia mekhanizatsiia vozdelevaniia i uborki kukuruzy.
Moskva, Proftekhizdat, 1962. 118 p. (MIRA 16:2)
(Corn (Maize)) (Farm mechanization)

MANUKOVSKIY, N., Geroy-Sotsialisticheskogo Truda, brigadir

Stir up enthusiasm by examples. NTO 4 no.5:15-17 My '62.

(MIRA 15:5)

1. Kompleksnaya brigada kolkhoza im. S.M.Kirova, poshetnyy chlen
Nauchno-tehnicheskogo obshchestva sel'skogo khozyaystva.
(Voronezh Province--Farm mechanization)
(Voronezh Province--Technical societies)

MANUKOVSKIY, Nikolay, deputat Verkhovnogo Soveta RSFSR, Geroy Sotsialisticheskogo Truda

Giants stopped by dwarfs. Tekh.mol. 31 no.1:36 '63. (MIRA 16:3)
(Repair and supply stations)

MANUKOVSKIY, S.

Our patrons are students. Obshchestv. pit. no.5:30 My '58.
(MIRA 11:4)

1. Zaveduyushchi stolovoy No.35 g. Voronezha.
(Voronezh--School lunchrooms, cafeterias, etc.)

MANUKYAN, A.

"The government apparatus of the United States in the hand of the monopolies."
Tr. from the Russian. p. 275 (TERMEZET ES TECHNIKA, Vol. 112, no. 5,
May, 1953. Budapest.) ALSO: Development of medical science and religion. p.280

SO: Monthly List of East European Accessions, Vol. 2, #8, Library of Congress
Aug. 1953, Uncl.

MANUKYAN, A.A.; GLUSHKOV, V.P.; SHVEDKOVA, V.M.; SVIRIDOVA, Z.P.; CHEBOTAREVA, Ye.A.; SHUMILIN, V.I.; PUDINA, K.V.; BRAGINA, N.M.; LUTSKAYA, Ye.Ye.; KODACHENKO, A.S.; KOSOVA, V.A.; MOKLYARSKIY, B.I.; GRECHIKHIN, A.A.; KULIKOV, N.I.; RYDVANOV, N.F.; BEL'CHUK, A.I.; VINTSER, Yu.I.; ROZENTAL', Ye.I.; BELOUS, T.Ya.; SIDOROV, V.F.; ZHDANOVA, L.P.; ALEKSANDROVSKAYA, L.I.; KOVAL', V.V.; KHAVINSON, Ya.S., glavnyy red.; SOKOLOV, I.A., zam.glavnogo red.; ALEKSEYEV, A.M., red.; ARZUMANYAN, A.A., red.; BELYAKOV, A.S., red.; BECHIN, A.I., red.; VARGA, Ye.S., red.; LEMIN, I.M., red.; LYUBIMOVA, V.V., red.; SKOROV, G.Ye., red. V redaktirovani uchashtvovali: SHAPIRO, A.I., red.; TATISHCHEV, S.I.. KOVRIGINA, Ye., tekhn.red.

[Economic conditions of capitalistic countries; review of business conditions for 1958 and the beginning of 1959] Ekonomicheskoe polozhenie kapitalisticheskikh stran; kon'yunktturnyi obzor za 1958 g. i nachalo 1959 g. Moskva, Izd-vo "Pravda," 1959. 127 p. (Prilozhenie k zhurnalu "Mirovaia ekonomika i mezhdunarodnye otnosheniia," no.8, avgust 1959 g.) (MIRA 12:9)

1. Akademiya nauk SSSR. Institut mirovoy ekonomiki i mezhdunarodnykh otnosheniy. 2. Kollektiv sotrudnikov kon'yunktturnogo sektora Instituta mirovoy ekonomiki i mezhdunarodnykh otnosheniy AN SSSR (for Glushkov, Shvedkova, Sviridova, Chebotareva, Shumilin, Pudina, Bragina, Lutsкая, Kodachenko, Kosova, Moklyarskiy, Grechikhin, Kulikov, Rydvanov, Bel'chuk, Vintser, Rozental', Belous, Sidorov, Zhdanova, Aleksandrovskaya, Koval'). (Economic conditions)